

## **In the claims:**

The following is a listing of all claims in the application with the status and the text of all now active claims. This listing of claims will replace all prior versions, and listings, of claims in the application.

### **Claims 1-21 (CANCELED).**

22. **(Newly Presented)** An apparatus for furrow opening in soil including:
- a first disc configured to rotate around a first axis of rotation, said first disc including a blade outwardly extending from said first axis of rotation, wherein said blade has an outer perimeter which includes a plurality of analogous outwardly extending teeth;
  - a second analogous disc extending at an acute angle to said first disc and configured to rotate around a second axis of rotation, said second disc mirroring said first disc along a central line of symmetry which is substantially parallel to the direction in which said apparatus travels when a furrow is being created; and
  - whereby said first and second discs include a leading edge and a trailing edge, wherein the teeth of said first and second discs are in closer proximity at said leading edge than at said trailing edge so that, in use, said first and second discs incise and progressively widen a furrow in said soil whilst minimizing soil disturbance.
23. **(Newly Presented)** An apparatus for furrow opening in soil as in claim 23 wherein said axes of rotation of said first and second discs are substantially perpendicular to the direction of travel of said apparatus.
24. **(Newly Presented)** An apparatus for furrow opening in soil as in claim 23 wherein said first and second disc discs are mounted so as to upwardly and rearwardly diverge from each other at said acute angle.

25. **(Newly Presented)** An apparatus for furrow opening in soil as in claim 23 wherein said teeth on the perimeter of the first disc abut the teeth on the perimeter of the second disc at a lower vertical position proximate a soil entry point.
26. **(Newly Presented)** An apparatus for furrow opening in soil as in claim 23 wherein a scraping assembly is associated with the opening disc apparatus to dislodge any soil or straw that adheres to the said first and second discs during operation.
27. **(Newly Presented)** An apparatus for furrow opening in soil as in claim 23 wherein said first and second discs are configured to rotate in unison wherein said teeth on said first disc aligns with said teeth on said second disc.
28. **(Newly Presented)** An apparatus for furrow opening in soil as in claim 23 wherein said first disc moves independently from said second disc.
29. **(Newly Presented)** An apparatus for furrow opening in soil including:  
a fertilizer furrow opener adapted to create a fertilizer furrow, said fertilizer furrow opener having a first and second rotatable disc that include a plurality of teeth, wherein said discs include a leading and a trailing edge, and are configured at an acute angle whereby the teeth of said discs are in closer proximity at said leading edge than at said trailing edge so that, in use, said first and second discs incise and progressively widen a fertilizer furrow in said soil while minimizing soil disturbance;  
at least one fertilizer outlet adapted to dispense fertilizer in said fertilizer furrow;  
a seeding implement having a seeding wheel with an outer circumference that includes a plurality of teeth adapted to create a seeding furrow;  
at least one seed outlet adapted to dispense seed in said seeding furrow; and  
at least one depth determining apparatus adapted to govern the depth of said fertilizer furrow and said seeding furrow.

30. **(Newly Presented)** An apparatus for furrow opening in soil as in claim 30 wherein said apparatus for furrow opening includes a gear mechanism configured to mechanically couple between said seeding implement and said fertilizer furrow opener.
31. **(Newly Presented)** An apparatus for furrow opening in soil as in claim 30 wherein said teeth of said first and second discs are analogous.
32. **(Newly Presented)** An apparatus for furrow opening in soil as in claim 30 wherein said teeth of said seeding wheel are analogous.
33. **(Newly Presented)** An apparatus for furrow opening in soil as in claim 30 wherein said fertilizer outlet is adapted to dispense fertilizer into said furrow created by said fertilizer furrow opener.
34. **(Newly Presented)** An apparatus for furrow opening in soil as in claim 30 wherein said seeding wheel is adapted to partially fill the furrow created by said fertilizer furrow opener and then create said seeding furrow into which seed, dispensed from said seed outlet, is deposited.
35. **(Newly Presented)** An apparatus for furrow opening in soil as in claim 30 wherein said apparatus includes at least one press wheel adapted to cover said seed with soil.
36. **(Newly Presented)** A method for creating a seed furrow in soil using a furrow opener having a first and second disc that include a plurality of teeth and a leading and trailing edge, said method including the steps of:  
moving said furrow opener across a surface of said soil, whereby said furrow opener incises the surface of said soil; and  
allowing said first and second discs to rotate about axes of rotation that are substantially perpendicular to the direction of travel of said furrow opener,

wherein said teeth of said first and second discs are in closer proximity at said leading edge than at said trailing edge, whereby said first and second discs are configured to progressively widen said furrow as said furrow opener is moved over the surface of said soil, while minimizing soil disturbance.

37. **(Newly Presented)** A method for creating a seed furrow in soil as in claim 37 wherein more than one pair of said discs is attached to an agricultural implement.

38. **(Newly Presented)** A method for creating a seed furrow in soil as in claim 37 wherein the depth to which said discs penetrate said soil can be adjusted.